CONTENTS OF VOLUME 19

No. 1, JANUARY 1959

THE EFFECT OF MATERNAL THYROID FUNCTION ON FETAL THYROID FUNCTION AND DEVELOPMENT 1
Edward A. Carr, Jr., William H. Beierwaltes, Govind Raman, Vernon N. Dodson, John Taton, Joseph S. Betts and Roy A. Stambaugh, with the technical assistance of Norma R. Spafford and Katherine Tanner

THE EFFECT OF IODIDE ON THE ACTION OF THYROTROPIN IN THE HYPOPHYSECTOMIZED PATIENT 19
Richard S. Benua and M. B. Lipsett

STUDIES OF THE EFFECT OF THYROTROPIN ON HUMAN THYROID FUNCTION 28
Jerzy Einhorn and Lars-Gunnar Larsson

THE THYROID-STIMULATING HORMONE CONTENT OF THE HUMAN HYPOPHYSIS: A PRELIMINARY REPORT 35
John L. Bakke and Nancy L. Lawrence

EFFECT OF DESICCATED THYROID IN LYMPHOCYTIC (HASHIMOTO'S) THYROIDITIS .. 45
William A. McConahey, Lewis B. Woolner, B. Marden Black and F. Raymond Keating, Jr.

STRUMA LYMPHOMATOSA (HASHIMOTO'S THYROIDITIS) AND RELATED THYROIDAL DISORDERS 53
Lewis B. Woolner, William M. McConahey and Oliver H. Beahrs

CLINICAL OBSERVATIONS ON SERUM GLOBULIN THYROXINE-BINDING CAPACITY USING A SIMPLIFIED TECHNIQUE 84
Shigeru Tanaka and Paul Starr

THYROID FUNCTION IN SUPRAVENTRICULAR TACHYCARDIAS: TURNOVER OF INTRAVENOUSLY INFUSED I^{131}-LABELED THYROXINE AND THE RED BLOOD CELL UPTAKE OF I^{131}-LABELED *l*-TRIIODOTHYRONINE 92
George S. Kurland, Arnold Golodetz, Milton W. Hamolsky and A. Stone Freedberg

THE PLASMA PROTEIN-THYROID HORMONE COMPLEX IN MAN. III. FURTHER STUDIES ON THE USE OF THE *in Vitro* RED BLOOD CELL UPTAKE OF I^{131}-*l*-TRIIODOTHYRONINE AS A DIAGNOSTIC TEST OF THYROID FUNCTION 103
Milton W. Hamolsky, Arnold Golodetz and A. Stone Freedberg

THE EFFECT OF *l*-THYROXINE ON SERUM LIPOPROTEIN AND CHOLESTEROL CONCENTRATIONS 117
Beverly Strisower, Paul Elmlinger, John W. Gofman and Oliver deLalla

OCCURRENCE OF THYROID NODULES IN CHILDREN FOLLOWING THERAPY WITH RADIOIODINE FOR HYPERTHYROIDISM 127
Glenn E. Sheline, Stuart Lindsay and H. Glenn Bell

EXOPHTHALMIC GOITER IN CHILDREN 138
Alvin B. Hayles, Roger L. J. Kennedy, Oliver H. Beahrs and Lewis B. Woolner

MEDULLARY (SOLID) CARCINOMA OF THE THYROID—A CLINICOPATHOLOGIC ENTITY 152
John B. Hazard, William A. Hawk and George Crile, Jr.

PARENCHYMAL FINDINGS IN THYROIDAL CARCINOMA: PATHOLOGIC STUDY OF 256 CASES 162
Donald W. Meier, Lewis B. Woolner, Oliver H. Beahrs and William M. McConahey

THE ENDOCRINE SOCIETY. The 1959 Annual Meeting and Awards 172

THE AMERICAN GOITER ASSOCIATION. The 1959 Annual Meeting and Award 176

NYU Post-Graduate Medical School Course in Gynecological Endocrinology ... 177

BOOK REGISTER 178

No. 2, February 1959

Thyroid Autoantibodies in the Families of Cretins 179
William H. Beierwaltes, Vernon N. Dodson and Albert H. Wheeler
Effect of Norethandrolone on 17-Ketosteroid Excretion in Prostatic Cancer Patients 183
Herbert Brendler and Bertram S. Winkler
The Role of Hormones in Human Behavior. I. Changes in Female Sexuality after Adrenalectomy 193
Sheldon E. Waxenberg, Marvin G. Drellich and Arthur M. Sutherland
Congenital Virilizing Adrenal Hyperplasia in Identical Twins 203
Norman G. Schneeberg, Arthur Steinberg, Maurice M. Malen, Benjamin Chernoff and Concepcion L. Yap
Determination of Progesterone in Human Blood Plasma 213
Georg W. Oertel, Stanley P. Weiss and Kristen B. Eik-Nes
Plasma Cortisol Levels in Man Following Oral and Intravenous Administration of Cortisol 219
Denis Abelson and D. A. Borcherds
Hypoparathyroidism: Report of a Case Successfully Treated with Intravenous Vitamin D_2 224
Daniel S. Bernstein and Francis D. Moore
Correlation of Goiter, Deafmutism and Mental Retardation with Serum Thyroid Hormone Levels in Noncretinous Inhabitants of a Severe Endemic Goiter Area in India 228
Govind Raman and William H. Beierwaltes
Effect of Oral Lipiodol on Thyroidal I^{131} Uptake and Serum Protein-Bound Iodine Concentration 234
Anne C. Carter, Shirley Weisenfeld and Eleanor Z. Wallace, with the technical assistance of Harold Schwartz and Marguerita Pascullo
Hormonal Treatment of Hand-Schüller-Christian Disease: Report of a Case with Disappearance of the Bone Lesions 239
A. Z. Flosi, L. M. Assis, A. S. Coelho Neto, W. Bloise, A. B. Ulhôa Cintra and R. P. Barros
Failure of Insulin to Induce a Change in Rate of Growth in a 14-Year-Old Boy with Anterior Pituitary Insufficiency 248
Alvin B. Hayles and Marschelle H. Power
Electrophoretic Alterations in Serum Proteins of Patients with Hirsutism 252
Amilcar Emilio Argüelles, Juan Salaber, José Pedro A. Pomes Ottone, Mateo Chekherdemian and Alberto Ricca
Acid Mucopolysaccharide in the Thyroid Gland 257
Alfred J. Bollet and William H. Beierwaltes
Failure to Demonstrate Hydrocortisone and Aldosterone during Pregnancy in Addison's Disease (Letter to the Editor) 263
Nicholas P. Christy and Joseph W. Jailer
Unusual Plasma 17-Ketosteroid Pattern in a Boy with Congenital Adrenal Hyperplasia and Periodic Fever (Letter to the Editor) 266
Lytt I. Gardner and Claude J. Migeon
Adrenal Hyperresponsiveness Resulting from Prolonged Corticotropin Therapy (Letter to the Editor) 269
Theodore B. Schwartz
The Endocrine Society
The 1959 Annual Meeting and Awards 275
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 278
The American Goiter Association. The 1959 Annual Meeting 279

THE AMERICAN SOCIETY FOR STUDY OF STERILITY, Annual Meeting 279
BOOK REGISTER 280

No. 3, MARCH 1959

A STUDY OF CORNIFICATION IN VAGINAL, BUCCAL AND URINARY SEDIMENT SMEARS 281
L. O. Vincze, P. D. Taft and J. W. McArthur
EFFECTS OF INTRAVENOUS INFUSIONS OF *dl*-ALDOSTERONE ACETATE ON SODIUM AND POTASSIUM EXCRETION IN MAN 289
E. J. Ross, W. J. Reddy, A. Rivera and G. W. Thorn
METABOLISM OF PROGESTERONE-4-C^{14} BY AN ARRHENOBLASTOMA 297
Walter G. Wiest, Josef Zander and Emil G. Holmstrom
THE UPTAKE OF P^{32} AS A MEASURE OF CELLULAR METABOLISM IN THE HUMAN THYROID 306
Colin G. Thomas, Jr. and Ethel A. Wilson
THE EFFECT OF TRIIODOTHYRONINE AND THYROXINE UPON THE RATE OF RELEASE OF THYROID HORMONE IN VARIOUS THYROID STATES 317
Delores E. Johnson, David H. Solomon and Monte A. Greer
ASSAY OF THYROID FUNCTION IN DIABETES MELLITUS 330
John H. Felts, I. Meschan and T. H. Oddie
CHANGES IN PLASMA LEVELS OF 17-HYDROXYCORTICOSTEROIDS DURING THE INTRAVENOUS ADMINISTRATION OF ADRENOCORTICOTROPIN (ACTH). IV. RESPONSE TO PROLONGED INFUSIONS OF SMALL AMOUNTS OF ACTH 334
Charles A. Nugent, Kristen Eik-Nes, Leo T. Samuels and Frank H. Tyler
STUDIES OF ADRENOCORTICAL FUNCTION IN OBESITY 344
P. Szenas and C. J. Pattee
PHEOCHROMOCYTOMA IN FATHER AND SON: REPORT OF THE EIGHTH KNOWN AFFECTED KINDRED 351
Robert E. Greenberg and Lytt I. Gardner
TREATMENT OF A LINGUAL GOITER WITH TRIIODOTHYRONINE 363
William D. Odell, John K. Stevenson and Robert H. Williams
INACTIVATION OF THE ANTIDIURETIC ACTIVITY OF VASOPRESSIN DURING PREGNANCY: A REPORT OF A CASE 369
James M. Eglin, Jr. and Andrew G. Jessiman
COMPLETE SEX REVERSAL: A CASE REPORT (Letter to the Editor) 375
John J. Hutchings
INTERFERENCE BY COPPER IN THE DETERMINATION OF SERUM BUTANOL-EXTRACTABLE IODINE (Letter to the Editor) 380
Robert A. Patterson and E. B. Man
THE ENDOCRINE SOCIETY
The 1959 Annual Meeting and Awards 385
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 387
First International Congress of Endocrinology 388
THE AMERICAN GOITER ASSOCIATION. The 1959 Annual Meeting 389
LAURENTIAN HORMONE CONFERENCE (Program) 390
INTERNATIONAL CONGRESS OF GASTROENTEROLOGY 391
BIOLOGICAL PHOTOGRAPHIC ASSOCIATION MEETING (Midwestern Section) 392
CHILDREN'S HOSPITAL OF PHILADELPHIA Courses in Pediatrics 392

No. 4, APRIL 1959

FURTHER STUDIES OF 21-DEOXYHYDROCORTISONE-4-C^{14} IN MAN 393
David K. Fukushima, Leon H. Bradlow, Leon Hellman and T. F. Gallagher

METABOLIC STUDIES IN PREGNANCY AND THE PUERPERIUM 403
E. H. Venning, I. Dyrenfurth, L. Lowenstein and J. Beck
SERUM GLUTAMIC-OXALACETIC TRANSAMINASE (SGO-T) AND SERUM GLUTAMIC-PYRUVIC TRANSAMINASE (SGP-T) IN TOXEMIA OF PREGNANCY 425
N. E. Borglin
STUDIES OF THE DIURNAL VARIATION OF PLASMA 17-HYDROXYCORTICOSTEROIDS IN MAN 432
G. T. Perkoff, K. Eik-Nes, C. A. Nugent, H. L. Fred, R. A. Nimer, L. Rush, L. T. Samuels and F. H. Tyler
URINARY EXCRETION OF 17-KETOSTEROIDS FOLLOWING RECTAL INFUSION OF CORTISOL 444
A. P. Wade, J. D. H. Slater, A. E. Kellie and Marjorie E. Holliday
THE INFLUENCE OF THYROID HORMONES ON METABOLISM IN PSYCHIATRIC DISORDERS. I. THE EFFECT OF 3:5:3′-TRIIODOTHYRONINE ON CALCIUM AND PHOSPHORUS METABOLISM IN PSYCHIATRIC PATIENTS 454
Frederic F. Flach, Charles I. Celian, Peter E. Stokes and Rulon W. Rawson
FUNCTIONAL RELATIONSHIPS BETWEEN THE LIVER, THE THYROXINE-BINDING PROTEIN OF SERUM, AND THE THYROID 466
A. Vannotti and T. Béraud
PSEUDO-PSEUDOHYPOPARATHYROIDISM WITH UNUSUAL FEATURES 478
Harold Smulyan and Lawrence G. Raisz
A EUTHYROID MAN WITHOUT THYROXINE-BINDING GLOBULIN (Letter to the Editor) 485
Shigeru Tanaka and Paul Starr
THE ISOLATION OF Δ^4-PREGNENE-11β,17α,20α,21-TETROL-3-ONE AND Δ^4-PREGNENE-11β,17α,20β,21-TETROL-3-ONE FROM HUMAN ADRENAL INCUBATES (Letter to the Editor) 487
Joseph C. Touchstone, David Y. Cooper, Maria Kasparow and William S. Blakemore
DEPRESSION OF THE SERUM CHOLESTEROL LEVEL BY TRIIODOTHYROPROPIONIC ACID (Letter to the Editor) 490
Hans G. Bauer, Thomas H. McGavack and Leon Swell
THE ENDOCRINE SOCIETY
Program of the 1959 Annual Meeting 494
The 1959 Awards 502
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 504
THE AMERICAN GOITER ASSOCIATION. Program of the 1959 Annual Meeting 505
TRAINING PROGRAM FOR STEROID BIOCHEMISTRY 508
CONGRESS OF FED'N OF SOCS. OF GYNECOLOGY & OBST. (French Language) 508
INTERNATIONAL CONGRESS ON IRRADIATION OF ENDOCRINE ORGANS 508
CORRECTION 508

No. 5, MAY 1959

UTILIZATION OF FRUCTOSE BY THE NERVOUS SYSTEM IN MAN 509
R. F. Tagnon and J. Corvilain
ASSAY OF HUMAN PITUITARY GONADOTROPIN FROM MALE AND POSTMENOPAUSAL URINE 518
A. Albert and E. Rosemberg
A COMPARATIVE STUDY OF THE METABOLISM OF HYDROCORTISONE AND PREDNISOLONE 526
C. A. Nugent, Kristen Eik-Nes and Frank H. Tyler
URINARY 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS IN CASTRATED *vs.* INTACT MEN: SUPPLEMENTARY COMPARISONS IN FEEBLE-MINDED *vs.*

MENTALLY NORMAL MEN 535
James B. Hamilton, Leitha D. Bunch and Gordon E. Mestler
THE SERUM PATTERN OF THYROID HORMONES IN EUTHYROIDISM AND HYPERTHYROIDISM 548
Walter L. Arons and Jerrold D. Hydovitz
THE TEN-MINUTE UPTAKE OF I^{131}: A CLINICAL STUDY AND COMPARISON WITH OTHER TESTS OF THYROID FUNCTION 557
H. P. Higgins
THE EFFECTS OF VARYING AMOUNTS OF STABLE IODINE ON THE FUNCTION OF THE HUMAN THYROID 567
Walter D. Feinberg, David L. Hoffman and Charles A. Owen, Jr.
TREATMENT OF MALIGNANT EDEMATOUS EXOPHTHALMOS BY IMPLANTATION OF THE PITUITARY WITH Y^{90}: REPORT OF TWO CASES 583
G. M. Molinatti, F. Camanni and A. Pizzini
IDIOPATHIC HYPOPARATHYROIDISM: UNUSUAL RESPONSE TO VITAMIN D 590
D. Robert Axelrod
EFFECTS OF 2-METHYL-DIHYDROTESTOSTERONE AND OF TESTOSTERONE ON HUMAN PITUITARY GONADOTROPIN (Letter to the Editor) 603
Charles M. Blackburn and A. Albert
URINARY STEROIDS IN 10 CASES OF ADRENAL CARCINOMA, WITH SPECIAL REFERENCE TO PREGNANE-3α,17α,20α-TRIOL-11-ONE (Letter to the Editor) 608
Michael Finkelstein and Judith Shoenberger
THE ENDOCRINE SOCIETY
The 1959 Annual Meeting and Awards 613
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 616
First International Congress of Endocrinology 616
PURIFIED FSH AVAILABLE (National Institutes of Health) 618
SIXTH INTERNATIONAL CONGRESS OF INTERNAL MEDICINE 618
BOOK REGISTER 619

No. 6, JUNE 1959

BETA AND DELTA CELLS OF THE HUMAN ADENOHYPOPHYSIS: THEIR RESPONSE TO ADRENOCORTICAL DISORDERS 621
Calvin Ezrin, Heidi E. Swanson, John G. Humphrey, John W. Dawson and F. Marguerite Hill
DAILY VARIATIONS IN THE THYROIDAL UPTAKE OF I^{131} IN HUMAN SUBJECTS 632
Richard P. Levy, Patricia Caughey and David Turell
IODINE METABOLISM IN GOITROUS CRETINS 638
John U. Gardner, Alvin B. Hayles, Lewis B. Woolner and Charles A. Owen, Jr.
A CONSIDERATION OF THE HYPERCALCIURIA IN SARCOIDOSIS, IDIOPATHIC HYPERCALCIURIA, AND THAT PRODUCED BY VITAMIN D. A NEW SUGGESTION REGARDING CALCIUM METABOLISM 658
W. P. U. Jackson and Colin Dancaster
THE ACUTE EFFECTS OF PARATHYROID EXTRACT IN STATES OF EDEMA, DIMINISHED RENAL FUNCTION AND PARATHYROID DISEASE 681
Herbert Gershberg, Daniel R. Shields and Sally S. Kove
EFFECT OF PROLONGED SLEEP THERAPY AND OF CHLORPROMAZINE ON PLASMA PROTEIN-BOUND IODINE CONCENTRATION AND PLASMA THYROXINE TURNOVER 692
Seymour Reichlin, Mtanios G. Koussa and Frederick W. Witt
EFFECT OF HYPNOTICALLY-INDUCED ANXIETY ON THE PLASMA HYDROCORTISONE LEVEL OF NORMAL SUBJECTS 700
Harold Persky, Hanus J. Grosz, James A. Norton and Mildred McMurtry

REPOSITORY FORMS OF ADRENOCORTICOTROPIN (ACTH) 711
Reynold C. Merrill
THYROID ADENOMAS AND THYROTOXICOSIS IN PATIENTS WITH HYPOPITUITARISM FOLLOWING HYPOPHYSECTOMY 717
K. J. Gurling, D. N. Baron and E. J. Radley Smith
ADDISON'S DISEASE IN TWO BROTHERS 726
J. William Meakin, Don H. Nelson and George W. Thorn
INTRAVENOUS PROGESTERONE IN THE ANOVULATORY WOMAN (Letter to the Editor) 732
Arthur L. Haskins
THE EFFECT OF THYROTROPIN ON THE TURNOVER RATES OF THYROXINE AND TRIIODOTHYRONINE (Letter to the Editor) 733
W. C. Story and W. H. Perkins
THE ENDOCRINE SOCIETY
The 1959 Annual Meeting and Awards 736
Program of the 1959 Postgraduate Assembly in Endocrinology and Metabolism 739
NIH Traineeship Program in Neurological and Sensory Disorders 741
NEW YORK HEART ASSOCIATION Scientific Session 742
SYMPOSIUM ON RECENT DEVELOPMENTS IN RESEARCH METHODS AND INSTRUMENTATION 742

No. 7, JULY 1959

SULFATION FACTOR ACTIVITY OF SERA FROM PATIENTS WITH PITUITARY DISORDERS 743
William H. Daughaday, William D. Salmon, Jr. and France Alexander
METABOLIC CHANGES PRODUCED BY HUMAN GROWTH HORMONE (LI) IN A PITUITARY DWARF 759
John J. Hutchings, Roberto F. Escamilla, William C. Deamer and Choh Hao Li
THE EFFECT OF BETAINE ON HUMAN SERUM LIPOPROTEINS 770
Edward H. Strisower, John W. Gofman, Paul Elmlinger, Beverly Strisower and Cletus L. Krag
EFFECTS OF ESTROGEN AND TESTOSTERONE ON CIRCULATING THYROID HORMONE 783
Norman H. Engbring and William W. Engstrom
COEXISTENCE OF ADDISON'S DISEASE AND DIABETES MELLITUS: REPORT OF THREE CASES WITH A DISCUSSION OF METABOLIC INTERRELATIONSHIPS 797
Robert D. Gittler, Stefan S. Fajans and Jerome W. Conn
CHANGES IN DIABETES INSIPIDUS DURING PREGNANCY AND LACTATION 805
Robert L. Scheer, Lawrence G. Raisz and Charles W. Lloyd
IDENTIFICATION OF SUBSTANCE S IN HUMAN ADRENAL VENOUS BLOOD 812
Joseph C. Touchstone, David Y. Cooper and William S. Blakemore with the technical assistance of Maria Kasparow
THE URINARY EXCRETION OF β-CORTOLONE ($3\alpha,17\alpha,20\beta,21$-TETRAHYDROXYPREGNANE-11-ONE), IN YOUNG AND ELDERLY MEN AND WOMEN 819
Louise P. Romanoff, Claudette Parent, Rosa M. Rodriguez and Gregory Pincus
THE PREPARATION OF AN APPARENTLY HOMOGENEOUS GONADOTROPIN FROM HUMAN MENOPAUSAL URINE 827
Albert Segaloff, Sanford L. Steelman, Carl Everett and Albert Flores
SEPARATION OF HUMAN THYROTROPIN FROM PLASMA BY ION EXCHANGE CHROMATOGRAPHY 831
M. Lawrence Heideman, Jr., John L. Bakke and Nancy L. Lawrence
THE EFFECTS OF HYPOPHYSECTOMY ON CERTAIN PARAMETERS OF THYROID FUNC-

TION IN TWO PATIENTS WITH GRAVES' DISEASE (Letter to the Editor).... 840
David V. Becker
CONGENITAL ADRENAL HYPERPLASIA AND PRECOCIOUS GONADOTROPIN SECRETION IN A 6-YEAR-OLD GIRL (Letter to the Editor)..... 844
Nada Kovačić
EFFECT OF CHORIONIC GONADOTROPIN ON URINARY EXCRETION OF 17-KETOSTEROIDS IN A 10-YEAR-OLD GIRL WITH CONGENITAL ADRENAL HYPERPLASIA (Letter to the Editor)..... 847
Nada Kovačić
URINARY 17-KETOSTEROIDS IN SURGICAL STRESS (Letter to the Editor)..... 849
Walter L. Herrmann, Mark A. Hayes, Ira S. Goldenberg and Ilse K. Schindl
THE INTERPRETATION OF STEROID HALF-LIFE VALUES (Letter to the Editor).... 854
Robert L. Cranny and Vincent C. Kelley
THE ENDOCRINE SOCIETY
Recipients of the 1959 Awards..... 857
The 1960 Annual Meeting and Awards..... 864
The 1959 Postgraduate Assembly in Endocrinology and Metabolism..... 866
First International Congress of Endocrinology..... 867
Acknowledgment..... 869
THE AMERICAN GOITER ASSOCIATION
Recipients of the 1959 Awards..... 870
The 1960 Annual Meeting and Award: Fourth International Goiter Conference..... 871
AMERICAN UROLOGICAL ASSOCIATION Award..... 872
INTER-SOCIETY CYTOLOGY COUNCIL Meeting..... 872
4TH INTERNATIONAL SYMPOSIUM ON Radioactive Isotopes in Clin. Medicine & Research..... 872
BOOK REGISTER..... 873

No. 8, AUGUST 1959

CLINICAL APPLICATION OF A NEW TEST OF PITUITARY RESERVE..... 875
Grant W. Liddle, Herschel L. Estep, John W. Kendall, Jr., W. Carter Williams, Jr. and Alexander W. Townes
ADRENOCORTICAL RESPONSE TO THE 48-HOUR ACTH TEST IN MYXEDEMA AND HYPERTHYROIDISM..... 895
Jean-Pierre Felber, William J. Reddy, Herbert A. Selenkow and George W. Thorn
URINARY EXCRETION OF 17-KETOGENIC STEROIDS IN NORMAL SUBJECTS BEFORE AND AFTER STIMULATION WITH INTRAMUSCULAR ZINC-ACTH..... 907
Ernest M. Gold and Paul Starr
STRUCTURE-ACTIVITY RELATIONSHIPS OF ANABOLIC STEROIDS: ROLE OF THE 19-METHYL GROUP..... 921
Harold P. Schedl, Catherine Delea and Frederic C. Bartter
THYROID-ANDROGEN INTERRELATIONS AND THE HYPOCHOLESTEREMIC EFFECT OF ANDROSTERONE..... 936
Leon Hellman, H. Leon Bradlow, B. Zumoff, David K. Fukushima and T. F. Gallagher
ALTERATIONS OF THYROID FUNCTION IN SEVERE HEART DISEASE, AS MEASURED BY I^{131} TECHNIQUES..... 949
Wade N. Miller and Lillian E. Jacobson
DISTRIBUTION OF SERUM RADIOIODINATED COMPOUNDS IN EUTHYROID AND HYPERTHYROID PATIENTS FOLLOWING HYPOPHYSECTOMY..... 953
Sidney C. Werner, David V. Becker and Vas V. Row

THE CELLS OF THE HUMAN ADENOHYPOPHYSIS IN THYROID DISORDERS..... 958
Calvin Ezrin, Heidi E. Swanson, John G. Humphrey, John W. Dawson and F. M. Hill
ADRENOCORTICAL HYPERPLASIA OCCURRING WITH METASTATIC CARCINOMA OF THE PROSTATE: REPORT OF A CASE EXHIBITING INCREASED URINARY ALDOSTERONE AND GLUCOCORTICOID EXCRETION..... 967
George D. Webster, Jr., Joseph C. Touchstone and Minoru Suzuki
THE SEMINAL VESICLE-COLCHICINE TEST FOR DETERMINATION OF PITUITARY INTERSTITIAL CELL-STIMULATING HORMONE..... 980
Julio Morató Manaro
THE OCCURRENCE OF PRE-ECLAMPSIA IN A BILATERALLY ADRENALECTOMIZED WOMAN..... 987
Arnold M. Moses, Julia Lobotsky and Charles W. Lloyd
GONADAL DYSGENESIS IN THREE SISTERS..... 995
G. A. Elliott, A. Sandler and D. Rabinowitz
MASCULINIZATION OF THE FEMALE INFANT ASSOCIATED WITH ESTROGENIC THERAPY ALONE DURING GESTATION: FOUR CASES (Letter to the Editor)..... 1004
Alfred M. Bongiovanni, Angelo M. Di George and Melvin M. Grumbach
IDENTIFICATION OF "FREE" TETRAHYDROCORTISONE IN HUMAN PERIPHERAL PLASMA (Letter to the Editor)..... 1011
Theodore E. Weichselbaum and Harry W. Margraf
THE ENDOCRINE SOCIETY
The 1960 Annual Meeting and Awards..... 1014
The 1959 Postgraduate Assembly in Endocrinology and Metabolism..... 1018
THE AMERICAN GOITER ASSOCIATION. The 1960 Meeting and Award: Fourth International Goiter Conference..... 1019
BIOLOGICAL PHOTOGRAPHIC ASSOCIATION Annual Meeting..... 1020
NYU Post-Graduate Medical School Course in Gynecological Endocrinology... 1020
BOOK REGISTER..... 1021

NO. 9, SEPTEMBER 1959

CHRONIC ADRENOCORTICAL DYSFUNCTION, INCLUDING ALDOSTERONE DEFICIENCY: STUDIES OF STEROID AND ELECTROLYTE METABOLISM..... 1023
George D. Molnar, Vernon R. Mattox, Harold L. Mason and Marschelle H. Power
INCREASED URINARY EXCRETION OF CATECHOL AMINES IN THE ABSENCE OF KNOWN CHROMAFFIN TUMORS. A SURVEY BY THE RABBIT AORTIC-STRIP METHOD OF 802 UNSELECTED, HOSPITALIZED PATIENTS..... 1037
Robert W. Ewer, John A. Arkins, Bart T. Heffernan and Edward J. Lennon
DEMONSTRATION OF GROWTH HORMONE IN HUMAN PLASMA..... 1049
Carl A. Gemzell
RESISTANCE TO INSULIN DUE TO NEUTRALIZING ANTIBODIES..... 1055
Calvin Ezrin and Peter J. Moloney
TREATMENT OF OVARIAN DYSFUNCTION WITH SMALL DOSES OF CORTISONE OR HYDROCORTISONE..... 1069
W. McK. Jefferies and R. P. Levy
METABOLIC OBSERVATIONS IN A CASE OF PURE PRIMARY HYPERALDOSTERONISM..... 1081
Etienne-Emile Baulieu, Paul Robel, Fred Siguier and Max-Fernand Jayle
TWO UNILATERALLY CRYPTORCHID BOYS WITH WITH SPERMATOGENIC PRECOCITY IN THE DESCENDED TESTIS, HYPERTELORISM AND POLYDACTYLY..... 1103
R. G. Bunge and J. T. Bradbury
FAMILIAL MALE PSEUDOHERMAPHRODISM WITH LABIAL TESTES AND PARTIAL FEMINIZATION: ENDOCRINE STUDIES AND GENETIC ASPECTS..... 1110
Herbert A. Lubs, Jr., Oscar Vilar and Delbert M. Bergenstal

STRUMA LYMPHOMATOSA: A REPORT OF THREE CASES IN ONE FAMILY 1121
E. J. Dunning
FACTORS INFLUENCING TAURINE EXCRETION IN HUMAN SUBJECTS 1126
E. Irene Pentz, William T. Moss and Charles W. Denko
FUNCTIONING ISLET-CELL CARCINOMA OF THE PANCREAS WITH CUSHING'S SYNDROME 1134
K. F. Balls, J. T. L. Nicholson, H. L. Goodman and J. C. Touchstone
IMPLANTATION OF THE PITUITARY WITH YTTRIUM^{90} IN A CASE OF CUSHING'S SYNDROME 1144
G. M. Molinatti, F. Camanni and M. Tedeschi
THE DETERMINATION OF ALDOSTERONE IN URINE 1151
Vernon R. Mattox and Marvin L. Lewbart
A SIMPLIFIED METHOD FOR THE SIMULTANEOUS DETERMINATION OF 17-KETOSTEROIDS, DEHYDROEPIANDROSTERONE, AND 17-HYDROXYCORTICOSTEROIDS IN SERUM 1162
Eleanor L. Saier, Elizabeth Campbell, Herbert S. Strickler and Robert C. Grauer
THE ENDOCRINE SOCIETY
The 1960 Annual Meeting and Awards 1174
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 1178
First International Congress of Endocrinology 1179
THE AMERICAN GOITER ASSOCIATION. The 1960 Annual Meeting and Award: Fourth International Goiter Conference 1181
INTERNATIONAL SOCIETY OF CYBERNETIC MEDICINE 1182
NUCLEAR-MEDIZIN 1182
N. Y. ACADEMY OF MEDICINE Postgraduate Week 1182
ACADEMY OF PSYCHOSOMATIC MEDICINE, Annual Meeting 1183
BOOK REGISTER 1183

No. 10, OCTOBER 1959

THE STIMULATION OF ALDOSTERONE SECRETION BY ADRENOCORTICOTROPIC HORMONE (ACTH) 1185
Jean Crabbé, William J. Reddy, Eric J. Ross and George W. Thorn
INFLUENCE OF THE RENAL EXCRETION OF SODIUM CHLORIDE UPON THE RENAL EXCRETION OF MAGNESIUM AND OTHER IONS BY HUMAN SUBJECTS 1192
A. Gorman Hills, David W. Parsons, George D. Webster, Jr., Otto Rosenthal and Hana Conover
THE TUBULAR REABSORPTION OF PHOSPHATE IN THE DIFFERENTIAL DIAGNOSIS OF METABOLIC BONE DISEASE 1212
Eric Reiss and France Alexander
THE RENAL CLEARANCE OF PLASMA CORTISOL 1223
Harold P. Schedl, Philip S. Chen, Jr., Gaynelle Greene and Diana Redd
ESTROGEN EXCRETION IN BREAST CANCER PATIENTS BEFORE AND AFTER OVARIAN IRRADIATION AND OOPHORECTOMY 1230
E. Diczfalusy, G. Notter, F. Edsmyr and A. Westman
FAILURE OF DIETHYLSTILBESTROL TO AFFECT THYROIDAL ACCUMULATION AND RENAL CLEARANCE OF I^{131} 1245
J. Thomas Dowling, Sidney H. Ingbar and Norbert Freinkel
EFFECT OF THYROTROPIC HORMONE ON THE ACCUMULATION OF RADIOACTIVE IODINE IN THYROTOXICOSIS 1252
A. W. G. Goolden
FURTHER STUDIES OF THE KINETICS OF GLUCOSE UTILIZATION. I. A NEW METHOD OF DATA ANALYSIS 1258
Charles J. Hlad, Jr. and Harold Elrick, with the technical assistance of Yoshiaki Arai

FURTHER STUDIES ON THE RENAL ACTION OF GLUCAGON 1274
Harold Elrick, N. Whipple, Y. Arai and C. J. Hlad, Jr.
ACTIVITY OF IODOTYROSINE DESHALOGENASE IN "NORMAL" AND DISEASED HUMAN THYROIDS 1282
Edward A. Carr, Jr., William H. Beierwaltes, Norma R. Spafford, Lawrence L. Duncan and Roy A. Stambaugh
EXPERIENCE WITH THE *in Vitro* ERYTHROCYTE UPTAKE OF I^{131}-LABELED *l*-TRIIODOTHYRONINE IN A ROUTINE CLINICAL LABORATORY 1292
Leonard R. Robbins, with the technical assistance of Mary Elizabeth Murphy
CHEMICAL DETERMINATION OF ALDOSTERONE IN URINE 1302
Charles Sobel, Richard J. Henry, Orville J. Golub and Morris Rudy
ENDOCRINE SIGNIFICANCE OF SHORT METACARPALS 1312
R. M. Archibald, N. Finby and F. De Vito
A CASE STUDY OF PECULIAR SOFT-TISSUE AND BONY CHANGES IN ASSOCIATION WITH THYROID DISEASE 1323
Lionel R. King, Herbert Braunstein, Donald Chambers and Richard Goldsmith
TRANSIENT RECURRENT GYNECOMASTIA AFTER REMOVAL OF AN ESTROGEN-SECRETING INTERSTITIAL-CELL TUMOR OF THE TESTIS 1331
M. Lawrence Heideman, Jr.
THE EFFECT OF *dl*-3,3′,5′-TRIIODOTHYRONINE IN GRAVES' DISEASE (Letter to the Editor) 1344
Richard S. Benua, Soichi Kumaoka, Robert D. Leeper and Rulon W. Rawson
SUBCORTICAL STIMULATION OF THE BRAIN AND RELEASE OF ANTIDIURETIC HORMONE IN MAN (Letter to the Editor) 1346
Joseph F. Dingman and Eduardo Gaitan
FALSELY ELEVATED VALUES FOR URINARY 17-KETOSTEROIDS AND 17-HYDROXYCORTICOIDS ASSOCIATED WITH INGESTION OF TRIACETYLOLEANDOMYCIN (Letter to the Editor) 1350
Marvin Numeroff, Martin Perlmutter and Stanley Slater
HYDROLYSIS OF ESTROGEN CONJUGATES IN DIABETIC PREGNANCY URINES (Letter to the Editor) 1352
R. Hobkirk, A. Alfheim and S. Bugge
STIMULATION OF RESPIRATION OF SLICES OF HUMAN ADENOHYPOPHYSIS BY ESTRADIOL-17β *in Vitro* (Letter to the Editor) 1357
Gerald Gaull and Claude A. Villee
THE ENDOCRINE SOCIETY
The 1960 Annual Meeting and Awards 1360
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 1364
THE AMERICAN GOITER ASSOCIATION. The 1960 Meeting and Award: Fourth International Goiter Conference 1365
SYMPOSIUM ON PARATHYROID RESEARCH TRENDS (Program) 1366
SECOND VENEZUELAN CONGRESS ON OBSTETRICS AND GYNECOLOGY 1368
AMERICAN COLLEGE OF PHYSICIANS, Course in Metabolic Diseases 1368

No. 11, NOVEMBER 1959

ON THE FETAL MASCULINIZING ACTION OF CERTAIN ORAL PROGESTINS 1369
Melvin M. Grumbach, Jacques R. Ducharme and Ralph E. Moloshok
THE INFLUENCE OF ESTROGEN ON THE SECRETION, DISPOSITION AND BIOLOGIC ACTIVITY OF CORTISOL 1381
Mary E. Robertson, Magdalena Stiefel and John C. Laidlaw
URINARY PREGNANETRIOL OF TESTICULAR ORIGIN 1399
Richard L. Landau and Maxine L. Laves

EFFECT OF HUMAN CHORIONIC GONADOTROPIN ON PLASMA CONCENTRATIONS OF 17-HYDROXYCORTICOSTEROIDS, DEHYDROEPIANDROSTERONE AND ANDROSTERONE IN MAN 1405
Kristen B. Eik-Nes, Georg W. Oertel, Richard Nimer and Frank H. Tyler

In Vivo DISTRIBUTION OF SOME 17-HYDROXYCORTICOSTEROIDS BETWEEN THE PLASMA AND RED BLOOD CELLS OF MAN 1411
Claude J. Migeon, Betty Lawrence, Jean Bertrand and Gerald H. Holman

VARIATIONS IN ENDOCRINE GLAND FUNCTION IN POSTPARTUM PITUITARY NECROSIS 1420
Carl W. Smith, Jr. and R. Palmer Howard.

THE DEVELOPMENT OF HORMONAL BIOSYNTHESIS IN HUMAN FETAL THYROIDS .. 1437
E. Yamazaki, A. Noguchi and D. W. Slingerland

ELEVATED THYROIDAL I^{131} UPTAKE IN THE ABSENCE OF GOITER IN ISOLATED VENEZUELAN INDIANS 1440
Marcel Roche

DEFECT OF THE IODINATING SYSTEM IN CONGENITAL GOITROUS CRETINISM: REPORT OF A CASE WITH BIOCHEMICAL STUDIES 1446
Heskel M. Haddad and J. B. Sidbury, Jr.

ADRENOCORTICAL RESPONSE TO SURGICAL OPERATIONS IN PATIENTS TREATED WITH CORTICOSTEROIDS OR CORTICOTROPIN PRIOR TO SURGERY 1458
Leon J. Marks, Michael J. Donovan, Frederick J. Duncan and Robert Karger

URINARY 17-KETOSTEROID AND 17-KETOGENIC STEROID EXCRETION IN CUSHING'S SYNDROME 1471
Charles H. Heider, Carroll A. Handley and Ralph V. Ford, with the technical assistance of James A. Huff and Edmond B. Walden

THE 17-HYDROXYCORTICOSTEROIDS OF PAROTID FLUID, SERUM AND URINE FOLLOWING INTRAMUSCULAR ADMINISTRATION OF REPOSITORY CORTICOTROPIN 1477
Ira L. Shannon, John R. Prigmore, Robert A. Brooks and Ralph P. Feller

ACUTE FATAL PARATHYROID POISONING ASSOCIATED WITH NECROSIS OF THE PARATHYROID ADENOMA PRIOR TO DEATH 1481
H. Dowlatabadi

ALDOSTERONE EXCRETION IN TWO ADRENALECTOMIZED PREGNANT WOMEN (Letter to the Editor) 1486
Eleanor H. Venning, S. Sybulski, V. E. Pollak and R. J. Ryan

THE RATE OF DISAPPEARANCE OF ACTH ACTIVITY FROM THE BLOOD OF HUMANS (Letter to the Editor) 1491
J. William Meakin, John E. Bethune, René H. Despointes and Don Nelson

LACK OF DIURNAL VARIATION IN THE LEVEL OF SERUM PROTEIN-BOUND IODINE (Letter to the Editor) 1495
Douglas L. Schatz and Robert Volpé

ADDISON'S DISEASE COMPLICATED BY GRAVES' DISEASE (Letter to the Editor) .. 1497
Harald M. Frey

HYPOPHYSECTOMY IN ACROMEGALY (Letter to the Editor) 1500
C.-A. Hamberger, G. Hammer, G. Norlén and B. Sjögren

DEXAMETHASONE THERAPY IN THE ADRENOGENITAL SYNDROME—A COMPARATIVE STUDY (Letter to the Editor) 1503
Jeanne A. Epstein and Herbert S. Kupperman

AN UNUSUAL CASE OF ADRENAL DYSFUNCTION IN THE MALE (Letter to the Editor) 1506
U. Bigozzi, A. Borghi, G. Giusti, F. Morabito and R. Toccafondi

URINARY 17-KETOSTEROID EXCRETION IN CASTRATED AND INTACT MEN (Letter to the Editor) 1510
Robert H. Furman and R. Palmer Howard

THE ENDOCRINE SOCIETY
The 1960 Annual Meeting and Awards 1513
The 1959 Postgraduate Assembly in Endocrinology and Metabolism 1517
First International Congress of Endocrinology 1517
THE AMERICAN GOITER ASSOCIATION. The 1960 Annual Meeting and Award: Fourth International Goiter Conference 1520
CONGRESS OF THE PAN AMERICAN MEDICAL ASSOCIATION 1521
NEW CLINICAL CENTER STUDY on the Stein-Leventhal Syndrome 1521
SYMPOSIUM ON FUNDAMENTAL CANCER RESEARCH 1522
INTERNATIONAL ACADEMY OF PATHOLOGY, Overseas Meeting 1522

No. 12, DECEMBER 1959

PITUITARY TUMORS IN PATIENTS WITH CUSHING'S SYNDROME 1523
Robert M. Salassa, Thomas P. Kearns, James W. Kernohan, Randall G. Sprague and Collin S. MacCarty
DIRECT AND INDIRECT ESTIMATION OF PITUITARY ADRENOCORTICOTROPIN RESERVES IN MAN FOLLOWING STEROID THERAPY 1540
Donald A. Holub, Joseph W. Jailer, Julian I. Kitay and Andrew G. Frantz
ATTEMPTS TO ASSAY MELANOPHORE HORMONE IN THE BLOOD OF MAN 1553
William E. Mayberry and A. Albert
HORMONES—WHENCE AND WHITHER 1563
E. Perry McCullagh
METABOLISM OF 11β-HYDROXY-Δ^4-ANDROSTENE-3,17-DIONE IN CONGENITAL ADRENAL HYPERPLASIA 1575
H. Leon Bradlow and T. F. Gallagher
METABOLIC EFFECTS OF MYTATRIENEDIOL IN MAN 1581
Herta Spencer, Bernard Kabakow, Joseph Samachson and Daniel Laszlo
OBSERVATIONS ON BODY HAIR IN OLD PEOPLE 1597
Roger Melick and H. Pincus Taft
THE URINARY EXCRETION OF THREE C-21 METHYL CORTICOSTEROIDS IN THE ADRENOGENITAL SYNDROME 1608
Alfred M. Bongiovanni, Walter R. Eberlein, J. Darrell Smith and Arthur J. McPadden
ISOLATION AND IDENTIFICATION OF ESTRONE, ESTRADIOL AND ESTRIOL IN HUMAN PREGNANCY PLASMA 1619
Georg W. Oertel, C. D. West and Kristen B. Eik-Nes
URINARY 17-KETOSTEROIDS IN BILHARZIAL CIRRHOSIS OF THE LIVER 1626
Abdel-Rahman M. Higazi, Alfonse R. Fahmy and M. Talaat
AN UNUSUAL CASE OF IDIOPATHIC HYPOPARATHYROIDISM, ADRENAL INSUFFICIENCY, HYPOTHYROIDISM AND METASTATIC CALCIFICATION 1633
Anne C. Carter, S. A. Kaplan, Allen P. DeMayo and David J. Rosenblum
SPONTANEOUS PITUITARY DESTRUCTION IN DIABETES MELLITUS 1642
Harald M. Frey
PRECOCIOUS PUBERTY ASSOCIATED WITH HEPATOMA 1651
Robert L. Reeves, Henry Tesluk and C. E. Harrison
OOCYTES IN SEMINIFEROUS TUBULES. II. A CASE REPORT OF BILATERAL OVOTESTES 1661
R. G. Bunge and J. T. Bradbury
THE EFFECTS OF CHORIONIC GONADOTROPIN IN KLINEFELTER'S SYNDROME 1667
Nelson Leon, Bernardo Leo Wajchenberg, Mario Rubens Montenegro and A. B. de Ulhôa Cintra

URINARY 17-KETOSTEROIDS IN CASTRATED *vs.* NONCASTRATED MEN (Letter to the Editor) 1680
James B. Hamilton, Leitha Bunch and Gordon E. Mestler
HYDROCORTISONE ACETATE, A LONG-ACTING CORTICOID, *vs.* HYDROCORTISONE, A SHORT-ACTING CORTICOID (Letter to the Editor) 1682
Albert Segaloff
THE ROLE OF POTASSIUM IN THE NATRIURETIC RESPONSE TO A STEROIDAL LACTONE (SC-9420) (Letter to the Editor) 1683
Frederic F. Taylor and William W. Faloon
THE ENDOCRINE SOCIETY
The 1960 Annual Meeting and Awards 1688
First International Congress of Endocrinology 1692
THE AMERICAN GOITER ASSOCIATION. The 1960 Annual Meeting and Award: Fourth International Goiter Conference; Program 1698
THE AMERICAN SOCIETY FOR STUDY OF STERILITY, Grant-in-Aid 1699
INTERNATIONAL SYMPOSIUM on Drugs Affecting Lipid Metabolism 1699
AUTHOR INDEX TO VOLUME 19 1700
SUBJECT INDEX TO VOLUME 19 1708